



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 September 2001 (27.09.2001)

PCT



(10) International Publication Number

WO 01/71357 A2

RECEIVED  
APR 28 2002  
TECHNICAL CENTER

(51) International Patent Classification<sup>7</sup>: G01N 33/68

(21) International Application Number: PCT/GB01/01219

(22) International Filing Date: 20 March 2001 (20.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0006695.1 20 March 2000 (20.03.2000) GB  
0007265.2 24 March 2000 (24.03.2000) GB

(71) Applicant (*for all designated States except US*): OXFORD GLYCOSCIENCES (UK) LIMITED [GB/GB]; The Forum, 86 Milton Park, Abingdon, Oxon OX14 4RY (GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HERATH, Herath, Mudiyanse, Athula, Chandrasiri [GB/GB]; Oxford GlycoSciences (UK) Ltd., The Forum, 86 Milton Park, Abingdon, Oxon OX14 4RY (GB). O'HARE, Michael, John [GB/GB]; Ludwig Institute for Cancer Research, 91 Riding House Street, London W1P 8BT (GB). PAGE, Martin, John [GB/GB]; Oxford GlycoSciences (UK) Ltd., The Forum, 86 Milton Park, Abingdon, Oxon OX14 4RY (GB). PAREKH, Rajesh, Bhikhu [GB/GB]; Oxford GlycoSciences (UK) Ltd., The Forum, 86 Milton Park,

Abingdon, Oxon OX14 4RY (GB). WATERFIELD, Michael, Derek [GB/GB]; Ludwig Institute for Cancer Research, 91 Riding House Street, London W1P 8BT (GB).

(74) Agents: CHAPMAN, Paul, William et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 01/71357 A2

(54) Title: PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF BREAST CANCER

(57) Abstract: The present invention relates to the identification of proteins and protein isoforms that are associated with breast cancer and its onset and development, and of genes encoding the same, and to their use for e.g., clinical screening, diagnosis, prognosis, therapy an prophylaxis, as well as for drug screening and development of pharmaceutical products.